cret
Centre de Recherches et d'Etudes Techniques du Tapis

TEST REPORT N° RL 2019/473

DELIVERY : 18/07/2019

MATERIAL RECEIVED : 11/07/2019

ORIGIN : BELGOTEX FLOORS AUSTRALIA
17/2 Focal Avenue Coolum Beach
QLD 4573
AUSTRALIA

NAME OF QUALITY : **SMOOTH**

TESTS TYPE : Reaction to fire tests for floorings according to AS/ISO 9239-1 (2003)
Part 1: Determination of the burning behaviour using a radiant heat source

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It contains **4** page(s) and **0** annex(s).

The results which have been obtained by means of the sample specified above, may not be generalised without justification of the representativeness of the samples.

ORIGIN OF THE SAMPLE TO CONSIDER:

Sample provided by the applicant of the test.

PRODUCT DESCRIPTION DETERMINED BY THE LABORATORY:

Tufted loop pile carpet tile (plank) of 100 cm x 25 cm with tonal effect (EN 1307 family product).

INFORMATIONS GIVEN BY THE CUSTOMER :

Composition of use-surface : 100% polyamide 6
Type of primary backing : non woven synthetic
Type of backing : bitumen
Total mass per unit area : 3850 g/m²
Total thickness : 7,0 mm
Total pile thickness: 2,5 to 5,0 mm

Colouring : Black - grey

Flame retardant : no

Description of test specimens:

***Substrate : fibre-cement board (EN 13238: 2010)**
Density (1800 ± 200) kg /m³
Thickness (8 ± 2) mm

Installation : adhered removable (tackifier glue BOSTIK NOGLISS with deposing 100 g/m²)

Cleaning : none

Conditioning :

Conditioning at (23 ± 2)°C and (50 ± 5) % relative humidity until constant mass.

Eventual deviations from the test method:

None

Date of test:

17/07/2019

Duration of the test:

The radiation is maintained until the flame is extinguished.

C.R.E.T is accredited ISO 17025 for testing according to EN ISO 9239-1 and notified by the French Government to the European Commission under n°NB 2401.

RESULTS :

1) HEAT FLUX

Specimen	Flame front distance (mm)			Heat flux (kW/m²)			Duration of flaming (min/s)	Maximum flame front distance (mm)	Critical Heat flux CHF (kW/m²)
	10 min	20 min	30 min	HF 10	HF 20	HF 30			
1 (L)*	240	250	250	8,6	8,4	-	21 min 40 s	250	8,4
1 (T)*	250	250	250	8,4	-	-	16 min 10 s	250	8,4
2 (L)	250	250	250	8,4	-	-	18 min 00 s	250	8,4
3 (L)	250	250	250	8,4	-	-	15 min 40 s	250	8,4
Average (L)									**8,4**

(L)* → Longitudinally direction
(T)* → Transversally direction

Observations :

Specimen is mounted in such a way at least one joint is situated 250 mm from the zero point in the both directions.

	Time for each specimen to burn in minutes (min) and seconds (s)			
Distance burnt (mm)	1 (Longitudinally)	1 (Transversally)	2 (Longitudinally)	3 (Longitudinally)
50	2 min 50 s	2 min 50 s	2 min 50 s	2 min 50 s
100	3 min 30 s	3 min 40 s	3 min 50 s	4 min 00 s
150	4 min 40 s	5 min 00 s	5 min 10 s	5 min 00 s
200	7 min 50 s	7 min 00 s	7 min 00 s	7 min 10 s
250	10 min 40 s	8 min 20 s	10 min 00 s	9 min 20 s
300				
350				
400				
450				
500				
550				
600				
650				
700				
750				
800				
850				
900				
950				
1000				

2) SMOKE DENSITY

Specimen	Maximum light attenuation (%)	Smoke development (% X min)
1 (L)*	28,8	124,8
1 (T)*	23,6	94,4
2 (L)	26,8	136,2
3 (L)	30,9	122,0
Average (L)	**28,8**	**127,7**

(L)* → Longitudinally direction
(T)* → Transversally direction

The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

End of report